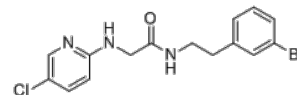


**Product Name** : SR12343  
**Cat. No.** : PC-35769  
**CAS No.** : 2055101-86-3  
**Molecular Formula** : C<sub>15</sub>H<sub>15</sub>BrClN<sub>3</sub>O  
**Molecular Weight** : 368.659  
**Target** : IκB kinase (IKK)  
**Solubility** : 10 mM in DMSO



### Biological Activity

SR12343 (SR-12343) is a novel small molecule that inhibits **IKK/NF-κB** activation by disrupting the association between IKKβ and NEMO.

SR12343 inhibits TNF-α-mediated NF-κB activation with IC<sub>50</sub> of 11.34 μM in luciferase assays.

SR12343 acted as a NEMO-binding domain mimetic and a highly selective inhibitor of the IKK complex by disrupting the association of IKKβ and the IKKγ subunit NEMO.

SR-12343 inhibited tumor necrosis factor α (TNF-α)- and lipopolysaccharide (LPS)-induced NF-κB activation by blocking the interaction between IKKβ and NEMO and suppressed LPS-induced acute pulmonary inflammation in mice.

### References

- Zhao J, et al. *PLoS Biol.* 2018 Jun 11;16(6):e2004663.
- Zhang L, et al. *Aging Cell.* 2021 Dec;20(12):e13486.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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